

Carbon Cycle 2.0

Pioneering science for sustainable energy solutions

Carbon Cycle 2.0 LDRD Seminar Series

The Carbon Cycle 2.0 initiative is hosting a weekly seminar series given by recipients of Laboratory Directed Research and Development (LDRD) awards related to climate and energy. The seminars will take place most Thursdays at 2 pm in the new User Support Building large conference room (15-253) and are open to anyone interested in learning more about the wide variety of Carbon Cycle 2.0-themed research at Berkeley Lab.

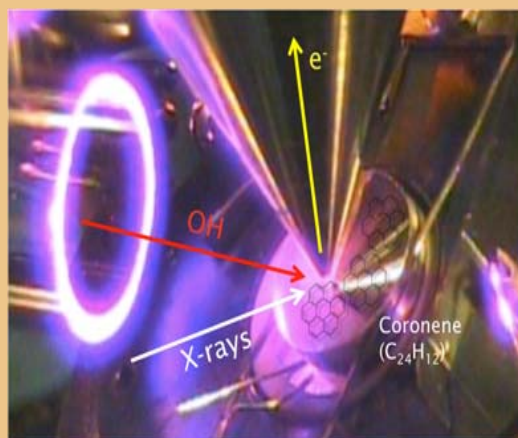
Interfacial reactions in the environment, energy production, and catalysis investigated with synchrotron-based spectroscopy

Hendrik Bluhm
Chemical Sciences Division, LBNL

WHEN: THURSDAY, MARCH 31, 2011, 2PM - 3PM

WHERE: User Support Building Conference Room 15-253

Whether it is the removal of carbon monoxide from automotive exhaust gases, the interaction of trace gases with droplets and ice particles in clouds, or the reaction of hydrocarbons and air with fuel cell electrodes, all of these processes are governed by the fundamental chemistry of gas/solid and gas/liquid interfaces. The investigation of these phenomena on the molecular scale has gained increasing importance over the last decade.



In this talk we will discuss basic approaches to in situ measurements of gas/liquid and gas/solid interfaces, with emphasis on synchrotron-based spectroscopies.